

**GRANULAR-AGGREGATE RESOURCES  
OF THE SIMS LAKE MAP SHEET  
(NTS 23H/13)**



MAP 2014-16

LEGEND

- Sample types (based on laboratory sieve analysis - see Table 1)
- Sample Symbol Definition
- Commonly gravel or sand, having silt-clay content < 5 percent. Deposits are commonly graded and stratified.
- Commonly silty, poorly graded and/or variable grain size, having a silt-clay content (> 5 and < 15 percent) and stone size exceeding allowable limits for most geotechnical purposes (except subgrade uses) without processing (i.e., washing, screening or crushing).
- + Commonly silty till, silt or clay samples, having silt-clay content > 15 percent.
- Site observation – no sample collected

Multiple samples taken from the same site in different years are listed in order from oldest to youngest. Multiple samples taken at the same site in the same year are listed in order, from the top of the exposure to bottom.

**Note:** This is a composite legend for all granular-aggregate resource maps. All aggregate zones, study areas, and sample types shown in the legend may not appear on this map. Aggregate zone classification is based on aeroporto interpretation, field investigation and sieve analyses. Areas outside the coloured zones have no known potential for granular materials; however silty tills, rock rubble suitable for fill, gravel and crushed stone, aggregate may be present. Classification of these materials on the map does not consider current or conflicting land uses, nor do they guarantee other access to, or the quality of, the material located within these zones.

**ZONES OF AGGREGATE POTENTIAL**

- Contains granular materials; probability of locating economic deposits is moderate to high.
- Contains thin tills less than 2 m in discontinuous granular materials; also includes areas where extent of thicker deposits could not be determined by field investigation; probability of locating economic deposits is moderate to low.
- May contain granular materials but deposits are not substantiated by field investigation; probability of locating economic deposits is moderate to low.
- Material of granular composition (e.g., sandy tills and colluvium) that generally contains up to 8 percent silt-clay, but could be improved for higher grade uses by washing or screening.
- Contains sand-size granular materials; high potential for economic exploitation of sand; low to moderate potential for coarser granular materials.
- Erosion: sinuous ridges of granular materials; moderate to high potential for economic exploitation.

Dashed outline: Study area in the dashed outline.

In addition to this map data, a granular-aggregate database is accessible in the Geoscience Atlas of Newfoundland and Labrador (<http://gis.geosur.ca/cn>) for all granular-aggregate maps and sample data. The database provides information on more than 13 000 samples collected from 230, 150 000 map areas in Newfoundland and Labrador.

This map was originally produced in a series of blue-line maps from aeroporto interpretation and field work (Environmental Geological Series 1983).

GIS: digital cartography by K. Morgan.

The location of roads added to topographic map base are approximate.

Elevation in feet above mean sea level. Contour interval 50 feet.

Copies of this map may be obtained from the Geoscience Publications and Information Section, Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 3700, St. Johns, N.L., Canada, A1B 4J6.

This map is subject to review and revision. Comments to the author concerning errors or omissions are invited.

Base from maps published by Surveys and Mapping Branch, Department of Natural Resources, Ottawa, Canada.

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This map supersedes Map 82-268, Open File LAB/0607

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Department: <http://www.nr.gov.nl/cnrf>  
Geological Survey: <http://www.nr.gov.nl/mines/geoscience/>  
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**References**

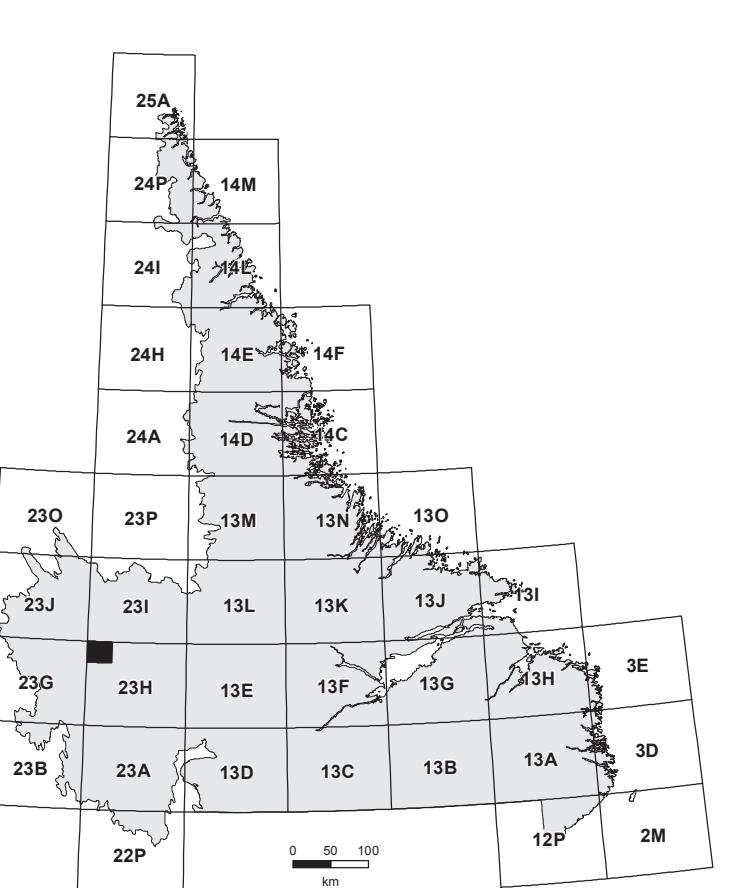
- Geoscience Atlas of Newfoundland and Labrador  
1983: 1:50 000 scale aggregate resource maps, outlining zones of aggregate potential within a 6-km-wide corridor in Labrador. Newfoundland Department of Mines and Energy, Mineral Development Division, Map 82-268, Open File LAB/0607.
- Kirby, F.T., Ricketts, R.J. and Vandevere, D.G.  
1983: Inventory of aggregate resources in Newfoundland and Labrador; information report and index maps. Newfoundland Department of Mines and Energy, Mineral Development Division, Report 83-2, 38 pages.

**Note**

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Grain-size analyses results from the 53, 55, and 6 mm mesh sizes were collected at the sample site location by sieving approximately 15 kg of material. A 500 to 1000 g split of the <6 mm material (sand+sil-clay) was retained for laboratory sieve analysis. Laboratory sieve analyses included the use of seven sieves with mesh openings of 4.2, 1, 0.5, 0.25, 0.125, 0.062 and the 0.062 mm particle fraction. Samples were wet and/or dry sieved (Kirby et al., 1983) depending on silt-clay content and consolidation of particles.

Table 1: Exposure area (Exp. A), estimated deposit thickness (Dep.), petrographic number (PN), grain-size percentages (based on percent retained on the 63 mm to the 0.062 mm mesh sieves) and gravel (%Gr), sand and silt-clay (SL-Cl) content of samples collected in NTS map area 23H/13.

Sample	Exp. A	Dep.	Percent retained through sieve opening (millimetres)										Report No.
			63	55	50	42	35	25	18	12	8	4	
793511	9	220	13.6	8.2	5.1	3.6	2.5	1.7	0.5	0.2	0.1	0.0	13.1
793512	1	2,200	4.4	3.4	2.4	1.7	1.0	0.7	0.4	0.2	0.1	0.0	46.3
793513	4.5	8,294	9.5	17.6	12.2	11.5	8	8.3	7	5.4	4.8	3.5	6.4
793514	8	10	0	0	0	0	14.9	7.8	8.6	9.9	11.9	16.2	14.7
793515	5	9,252	9.6	9.6	5.8	8.7	3.4	6.5	6.9	7.9	10.3	9.1	7.2
793516	4	8,286	10.0	13.0	10.0	10.0	9.0	10.0	11.0	11.0	11.0	11.0	10.0
793517	5	8,288	7.7	13.1	10	10.8	9.9	6.7	5.8	7.2	7.7	5.2	49
793518	13	5,256	12	11.1	9.4	8.5	3.8	5.7	7.2	9	7.5	5.4	11.4
793519	4	5,274	15.6	14.4	19.5	13.7	11.2	4.3	1.4	0.1	0.1	0.2	22.2
793520	1	1,200	16.0	15.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.0
793521	8	15,278	10.3	25.9	13.9	9.0	6.7	8.9	8.6	3.3	0.7	0.2	69.7
793522	1	5,272	7.5	11.3	6.8	6	8.4	5.3	6.9	8.4	10.7	10.8	6.6
793523	8	10	0	0	39	1.7	5.9	5.9	8.3	12.5	13.5	9	4
793524	4	8,276	4.3	9.6	7.8	7.9	7.3	7.2	7.8	9.0	6.7	12	36.3
793525	1	1,200	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
793526	4	6,254	9.2	7.7	7	4.2	2.6	3.5	9.6	9.4	9.5	13.1	50.1
793544	8	273	7.9	7.9	7.1	10.2	10.8	18.7	22.2	13.4	0.1	0.1	41.2
793545	8	8	0	0	0	0	0	0	0	11.1	11.8	10.4	6.4
794346	1	1,200	0	0	0	0	0	0	0	0	0	0	0
794354	2	8,280	7.2	8.6	5.8	8.6	6.6	10.3	11.7	10.3	8.2	9.8	7.2
794365	2	10,272	0	13.8	8.4	8.7	11.4	17.9	8.9	1.6	0.3	0.2	48.8
794366	4	10,287	0	6.7	13.4	21.8	19.6	14	13.6	7.5	2	0.5	0.3
794367	2	15,286	4.3	6.5	7.2	8.6	2.6	6.7	8.2	10.5	12.2	9.2	17.5
794368	1	1,200	0	0	0	0	0	0	0	0	0	0	0
794369	2	10,288	0	9.1	9.1	14	3.7	5.7	7.3	7.9	8.8	11.9	8.9
794371	1	8	0	0	0	0	0	0	0	0	0	0	49.3
794372	1	1,200	0	0	0	0	0	0	0	0	0	0	0
794374	0	10	0	0	0	0	0	0	0	0	0	0	0
794375	0	10	0	0	0	0	0	0	0	0	0	0	0
794376	0	8	0	0	0	0	0	0	0	0	0	0	0
794377	0	8	0	0	0	0	0	0	0	0	0	0	0
794378	0	8	0	0	0	0	0	0	0	0	0	0	0
794379	0	8	0	0	0	0	0	0	0	0	0	0	0
794380	0	10	0	0	0	0	0	0	0	0	0	0	0
794381	0	10	0	0	0	0	0	0	0	0	0	0	0
794382	0	10	0	0	0	0	0	0	0	0	0	0	0
794383	0	10	0	0	0	0	0	0	0	0	0	0	0
794384	0	10	0	0	0	0	0	0	0	0	0	0	0
794385	0	12	0</td										